Form 1449 (modified)	Docket: 090/003C	U.S.S.N. 10/087,473
Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Title: Direct Differentiation of Human Pluripotent Stem Cells and Characterization of Differentiated Cells Inventors: Carpenter, M., et al. Filing Date: March 1, 2002	Group: ~~TBD~~ 1632

U.S. Patent Documents

Examiner Initial	Ref.	Patent No.	Filing Date	Issue Date	Class/ Subclass	Inventors:	Title:
TNT	A	5,766,948	Nov 3/93	Jun 16/98	435/368	Gage, F.H., et al.	Method for Production of Neuroblasts
	B	5,773,255	Jun 5/95	Jun 30/98	435/70.3	Laurance, M.E., et al.	Glucose Responsive Insulin Secreting β-Cell Lines and Method For Producing Same
	C	5,789,246	Nov 18/96	Aug 4/98	435/325	Reid, L.M., et al.	Compositions Comprising Hepatocyte Precursors
	D	5,849,553	Jun 7/95	Dec 15/98	435/172.3	Anderson, D.J., et al.	Mammalian Multipotent Neural Stem Cells
	E	5,851,832	Jun 7/95	Dec 22/98	435/368	Weiss, S., et al.	In Vitro Growth and Proliferation of Multipotent neural Stem Cells and Their Progeny
	F	5,928,947	Jun 7/95	Jul 27/99	435/455	Anderson, D.J., et al.	Mammalian Multipotent Neural Stem Cells
	G	5,968,829	Sep 5/97	Oct 19/99	435/467	Carpenter, M.	Human CNS Neural Stem Cells
	H	5,981,165	Jun 7/95	Nov 9/99	435/4	Weiss S., et al.	In Vitro Induction of Dopaminergic Cells
	I	6,040,180	May 7/97	Mar 21/00	435/377	Johe, K.	In vitro Generation of Differentiated Neurons From Cultures of mammalian Multipotent CNS Stem Cells
	J	6,090,622	Mar 31/97	Jul 18/00	435/366	Gearheart, J.D., et al.	Human Embryonic Pluripotent Germ Cells
TNT	K	6,200,806	Jun 26/98	Mar 13/01	435/366	Thomson, J.A.	Primate Embronic Stem Cells

Foreign Patent or Published Foreign Patent Application

Examiner Initial	Ref.	Document No.	Publ. Date	Juris-diction	Title:	Translation
TNT	L	WO 99/04775	Feb 4/99	PCT	Method of Treating Dopaminergic and Gaba-Nergic Disorders	N/A
	M	WO 99/20741	Apr 29/99	PCT	Methods and Materials for the Growth of Primate-Derived Primordial Stem Cells	N/A
	N	WO 99/43785	Sep 2/99	PCT	Derivation of Cells and Tissues from Embryonic Pre-Stem Cells for Transplantation Therapies	N/A
	O	WO 99/53021	Oct 21/99	PCT	Cell Differentiation/Proliferation and Maintnance and Uses Thereof	N/A
	P	WO 00/17323	Mar 30/00	PCT	Stable Neural Stem Cell Lines	N/A
	Q	WO 98/50526	Nov 12/98	PCT	Generation, Characterization, and Isolation of Neuroepithelial Stem Cells and Lineage Restricted Intermediate Precursor	N/A
	R	WO 99/01159	Jan 14/99	PCT	Lineage-Restricted Neuronal Precursors	N/A
TNT	S	WO 99/28443	Jun 10/99	PCT	Lineage Restricted Glial Precursors from the Central Nervous System	N/A

Examiner	Date Considered
Thaven	4/27/04

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. **Include copy of this form with next communication to applicant.**

Form 1449 (modified)	Docket: 090/003C	U.S.S.N. 10/087,473
Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Title: Direct Differentiation of Human Pluripotent Stem Cells and Characterization of Differentiated Cells Inventors: Carpenter, M., et al. Filing Date: March 1, 2002	Group: 1632 TBD

Other Documents

Examiner Initial	Ref.	Author, Title, Date, Source
TNT	T	Andrews, et al., Retinoic Acid Induces Neuronal Differentiation of a Cloned Haman Embryonal Carcinoma Cell Line in Vitro, Dev. Biol. 103:285 (1984)
	U	Bain, et al., Embryonic Stem Cells Express Neuronal Properties In Vitro, Dev. Biol. 168:342 (1995)
	V	Bain, et al., Expression of Retinoid X Receptors in P19 Embryonal Carcinoma Cells and Embryonic Stem Cells, Biochem. Biophys. Res. Commun. 200:1252 (1994)
	W	Bain, et al., Retinoic Acid Promotes Neural and Represses Mesodermal Gene Expression in Mouse Embryonic Stem Cells in Culture, Chem. and Biophys. Res. Comm. 223:691 (1996)
	X	Bieseckert, et al., Interleukin-6 is a Component of Hman Umbilical Cord Serum and Stimulates Hematopoiesis In Embryonic Stem Cells in Vitro, Exp. Hematol. 21:744 (1993)
	Y	Bouwmeester, et al., Vertebrate Head Induction By Anterior Primitive Endoderm, BioEssays 19:855 (1997)
	Z	Brustle, et al., In Vitro-Generated Neural Precursors Participate in Mammalian Brain Development, Proc. Natl. Acad. Sci. USA 94:14809 (1997)
	AA	Brustle, et al., Embryonic Stem Cell-Derived Glial Precursors: A Source of Myelinating Transplants, Science 285:754 (1999)
	AB	Burkert, et al., Early Fetal hematopoietic Development From In Vitro Differentiated Embryonic Stem Cells, New Biol. 3:698 (1991)
	AC	Davidson, et al., Cell Fate and Lineage Specification in the Gastrulating Mouse Embryo, Children's Medical Res. Institute :491 (1999)
	AD	Deacon, et al., Blastula-Stage Stem Cells Can Differentiate into Dopaminergic and Serotonergic Neurons after Transplantation, Exp. Neurol. 149:28 (1998)
	AE	Dinsmore, et al., Embryonic Stem Cells Differentiated In Vitro as a Novel Source of Cells for Transplantation, Cell Transplant 5:131 (1996)
	AF	Fisher, et al., Factors Influencing the Differentiation of Embryonal Carcinoma and Embryo-Derived Stem Cells, Exp. Cell Research 182:403 (1989)
	AG	Fraichard, et al., In Vitro Differentiationof Embryonic Stem Cells into Glial Cells and Functional Neurons, J. Cell Science 108:3181 (1995)
	AH	Gendron, et al., Induction of Embryonic Vasculogenesis by bFGF and LIF In Vitro and In Vivo, Dev. Biol 177:332 (1996)
	AI	Itskovitz-Eldor, et al., Differentiation of Human Embryonic Stem Cells Into Embryoid Bodies Comprising the Three Embryonic Germ Layers, Mol. Med. 6:88 (2000)
	AJ	Kalyani, et al., Cell Lineage in the Developing Neural Tube, Biochem. Cell. Biol. 76:1051 (1998)
	AK	Keller, In Vitro Differentiation of Embryonic Stem Cells, Cell Biology 7:862 (1995)
	AL	Levinson-Dushnik, et al., Involvement of Hepatocyte Nuclear Factor 3 in Endoderm Differentiation of Embryonic Stem Cells, Mol. Cell. Biol. 17:3817 (1997)
	AM	Mujtaba, et al., Lineage-Restricted Neural Precursors Can Be Isolated from Both the Mouse neural Tube and Cultured ES Cells, Dev. Biol. 214:113 (1999)
	AN	Mummery, et al., Characteristics of Embryonic Stem Cell Differentiation: A Comparison With Two Embryonal Carcinoma Cell Lines, Cell Diff. Dev. 30:195 (1990)
	AO	Odorico, et al., Multilineage Differentiation from Human Embryonic Stem Cell Lines, Stem Cells 19:193 (2001)
TNT	AP	Okabe, et al., Development of Neuronal Precursor Cells and Functional Postmitotic Neurons from Embryonic Stem Cells In Vitro, Mech. Dev. 59:89 (1996)

Examiner thaun	Date Considered 4/27/04

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. **Include copy of this form with next communication to applicant.**

Form 1449 (modified)	Docket: 090/003C	U.S.S.N. 10/087,473
Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Title: Direct Differentiation of Human Pluripotent Stem Cells and Characterization of Differentiated Cells Inventors: Carpenter, M., et al. Filing Date: March 1, 2002	Group: 1632 TBD

RECEIVED
APR 26 2002
TECH CENTER 1600/2900

Other Documents

Examiner Initial	Ref.	Author, Title, Date, Source
TNT	AQ	O'Shea, Embryonic Stem Cell Models of Development, Anat. Rec. (New Anat.) 257:32 (1999)
	AR	Pedersen, Studies of In Vitro Differentiation with Embryonic Stem Cells, Reprod. Fertil. Dev. 6:542 (1994)
	AS	Rao, Multipotent and Restricted Precursors in the Central Nervous System, New Anat. 257:1 (1999)
	AT	Rathjen, et al., Formation of a Primitive Ectoderm Like Cell Population, EPL Cells, From ES Cells In Response to Biologically Derived Factors, J. Cell. Sci. 112:601 (1999)
	AU	Rathjen, et al., Properties and Uses of Embryonic Stem Cells: Prospects for Application to Human Biology and Gene Therapy, Reprod. Fertil. Dev. 10:31 (1998)
	AV	Reubinof, et al., Embryonic Stem Cell Lines From Human Blastocysts: Somatic Differentiation In Vitro, Nature Biol. 18:399 (2000)
	AW	Robertson, Derivation and Maintenance of Embryonic Stem Cell Cultures, Meth. Mol. Biol. 75:173 (1997)
	AX	Schuldiner, et al., Effects of Eight Growth Factors on the Differentiation of Cells Derived from Human Embryonic Stem Cells, PNAS 97:11307 (2000)
	AY	Strubing, et al., Differentiationof Pluripotent Embryonic Stem Cells into the Neuronal Lineage in Vitro Gives Rise to Mature Inhibitory and Excitatory Neurons, Mechanisms of Dev. 53"275 (1995)
	AZ	Seaberg, et al., Neural Determination Genes Revealed By Expression Trapping In Embryonic Stem Cells, Soc. Neurosci. (29th Annual Meeting) 25:527 (1999)
	BA	Shamblott, et al., Derivation of Pluripotent Stem Cells from Cultured human Primordial Germ Cells, Proc. Natl. Acad. Sci. USA 95:13726 (1998)
	BB	Smith et al., Culture and Differentiation of Embryonic Stem Cells, J. Tiss. Cult. Meth. 13:89 (1991)
	BC	Thomson, et al., Embryonic Stem Cell Lines Derived from Human Blastocysts, Science 282:1145 (1998)
	BD	Trojanowski, et al., Transfectable and Transplantable Postmitotic Human Neurons: A Potential "Platform" for Gene Therapy of nervous System Diseases, Exp. Neurol. 144:92 (1997)
	BE	Tropepe, et al., Abstract 205.18: Autonomous Neural Cell Fate Specification in Mouse Embryonic Stem Cells, Soc. Neurosci. 25:527 (1999)
	BF	Tropepe, et al., Abstract 205.17: Neural Determination Genes Revealed by Expression Trapping in Embryonic Stem Cells, Soc. Neurosci. 25: 527 (1999)
	BG	Van Inzen, et al., Neuronal Differentiation of Embryonic Stem Cells, Biochim. Biophys. Acta 1312:21 (1996)
	BH	Varlet, et al., Nodal Expression in the Primitive Endoderm is Required for Specification of the Anterior Axis During Mouse Gastrulation, Development 124:1033 (1997)
	BI	Wojcik, et al., Catecholaminergic Neurons Result from Intracerebral Implantation of Embryonal Carcinoma Cells, Proc. Natl. Acad. Sci. USA 90:1305-130
	BJ	Yandava, et al., "Global" Cell Replacement is Feasible Via Neural Stem Cell Transplantation: Evidence from the Dysmyelinated *Shiverer* Mouse Brain, Proc. Natl. Acad. Sci. USA 96:7029 (1999)
	BK	Yao, et al., Neuronal Differentiation of P19 Embryonal Carcinoma cells in Defined Media, J. Neuroscience Res. 41:792 (1995)
	BL	Lamb, T.M., et al., Neural Induction by the Secreted Polypeptide Noggin, Science 262:713 (1993)
	BM	Lim, D.A., et al., Noggin Antagonizes BMP Signaling to Create a Niche for Adult Neurogenesis, Neuron 27:713 (2000)
TNT	BN	Sasal, Y., et al., Regulation of Neural Induction by the Chd and Bmp-4 Antagonistic Patturning Signals in Zenopus, Nature 376:333 (1995)

Examiner	Date Considered
Sharon	4/27/04

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. **Include copy of this form with next communication to applicant.**

Form 1449 (modified)	Docket: 090/003C	U.S.S.N. 10/087,473
Information Disclosure Statement By Applicant	Title: Direct Differentiation of Human Pluripotent Stem Cells and Characterization of Differentiated Cells Inventors: Carpenter, M., et al.	1632
(Use Several Sheets if Necessary)	Filing Date: March 1, 2002	Group: ~~TBD~~

Other Documents

Examiner Initial	Ref.	Author, Title, Date, Source
TNT	BO	Kalyani, A., et al., Cell Lineage in the Developing Neural Tube, Biochem. Cell Biol. 76:1051 (1998)
TNT	BP	Li, M., et al., Generation of Purified Neural precursors from Embryonic Stem Cells by Lineage Selection, Current Biol., Current Science 8:971 (1998)
TNT	BQ	Mujtaba, T., et al., Lineage-Restricted Neural Precursors Can Be Isolated from Both the Mouse Neural Tube and Cultured ES Cells, Dev. Biol. 214:113 (1999)

Examiner	Date Considered
	4/27/04

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. **Include copy of this form with next communication to applicant.**